Medical Library
610.5
B86
J86
P54
v.9

CONTENTS

No. 1. *MARCH*, 1954

PAGE

Investigation of the Toxicity of a Series of Dextran Sulphates of Varying Molecular Weight. Kenneth W. Walton 1

Interaction of Nicotine and Eserine, Ephedrine, Atropine, Hexamethonium, and Adrenaline in Isolated Guinea-pig Auricles. A. Giotti 15

Improved Automatic Apparatus for Pharmacological Assays on Isolated Preparations. A. Boura, J. L. Mongar, and H. O. Schild 24

Identification of the Stable Antidiuretic Substance (" Stable ADS ") of Serum with 5-Hydroxytryptamine. V. Erspamer and G. Sala 31

The Chemotherapeutic Action of Phenanthridine Compounds: Part VII. R. A. Neal and El Amin El Karib 37

Quinidine and Anticholinesterases on Rabbit Auricles. Sheila Briscoe and J. H. Burn 42

A Sea Anemone Extract (Thalassine) which Liberates Histamine and a Slow Contracting Substance. R. Jaques and M. Schachter 49

The Presence of Histamine, 5-Hydroxytryptamine and a Potent, Slow Contracting Substance in Wasp Venom. R. Jaques and M. Schachter 53

Stool Concentrations and Absorption of Chloramphenicol and its Palmitate in Babies. A. L. Speirs.. 59

The Effect of Intravenous Infusions of Histamine on the Urinary Histamine and on Gastric Secretion in Man. H. M. Adam, W. I. Card, M. J. Riddell, M. Roberts, and J. A. Strong 62

The Role of the Cyclic Ethyleneiminium Ion in the Pharmacological Activity of the 2-Haloethylamines. J. D. P. Graham and G. P. Lewis 68

The Inhibition of Cholinesterases by Antagonists of Acetylcholine and Histamine. A. Todrick 76

The Action of Eserine Sulphate on the Spinal Cord of the Cat. D. Taverner 84

Pharmacology of the Porphyrins and Porphobilinogen. A. Goldberg, W. D. M. Paton, and J. W. Thompson 91

Factors Influencing the Effect of Morphine Sulphate on the Ascorbic Acid Content of Rats' Adrenal Glands. P. A. Nasmyth 95

The Intracellular Distribution of Histamine in Dog's Liver. P. Hagen 100

The Mechanisms of Toxicity of Some Iron Preparations. J. A. Nissim 103

Analgesic and Other Actions of Some Dithienylbutenylamine Compounds in Man. P. Flintan and C. A. Keele 106

Influence of Cysteinamine on Tuberculin Sensitivity in Guinea-pigs. D. A. Long 118

The Glycogenolytic Action of Sodium Salicylate. D. H. Sproull 121

Biological Standardization of " MSb Polymer " (Sodium *p*-Melaminyl Phenyl Stibonate). N. D. Edge, J. Hill, and Rachel Stone 125

No. 2. *JUNE*, 1954

A Medium for Perfusion of Innervated Blood Vessels. D. J. A. Gallagher 129

The Inhibition of the Peristaltic Reflex by Sympathomimetic Amines. Mary D. McDougal and G. B. West 131

Some Selective Inhibitors of True Cholinesterase. Muriel P. Fulton and G. A. Mogey 138

The Part Played by Inhibition of Cholinesterases of the CNS in Producing Paralysis in Chickens. L. Austin and D. R. Davies 145

Acetylcholine Production in Animals Poisoned by Diethyl-*p*-nitrophenyl Phosphate (Paraoxon). J. M. Barnes and Janet I. Duff 153

Medical Library
610.5
B86
J86
P54
v.9

CONTENTS

No. 1. *MARCH*, 1954

PAGE

Investigation of the Toxicity of a Series of Dextran Sulphates of Varying Molecular Weight. Kenneth W. Walton 1

Interaction of Nicotine and Eserine, Ephedrine, Atropine, Hexamethonium, and Adrenaline in Isolated Guinea-pig Auricles. A. Giotti 15

Improved Automatic Apparatus for Pharmacological Assays on Isolated Preparations. A. Boura, J. L. Mongar, and H. O. Schild 24

Identification of the Stable Antidiuretic Substance (" Stable ADS ") of Serum with 5-Hydroxytryptamine. V. Erspamer and G. Sala 31

The Chemotherapeutic Action of Phenanthridine Compounds: Part VII. R. A. Neal and El Amin El Karib 37

Quinidine and Anticholinesterases on Rabbit Auricles. Sheila Briscoe and J. H. Burn 42

A Sea Anemone Extract (Thalassine) which Liberates Histamine and a Slow Contracting Substance. R. Jaques and M. Schachter 49

The Presence of Histamine, 5-Hydroxytryptamine and a Potent, Slow Contracting Substance in Wasp Venom. R. Jaques and M. Schachter 53

Stool Concentrations and Absorption of Chloramphenicol and its Palmitate in Babies. A. L. Speirs 59

The Effect of Intravenous Infusions of Histamine on the Urinary Histamine and on Gastric Secretion in Man. H. M. Adam, W. I. Card, M. J. Riddell, M. Roberts, and J. A. Strong 62

The Role of the Cyclic Ethyleneiminium Ion in the Pharmacological Activity of the 2-Haloethylamines. J. D. P. Graham and G. P. Lewis 68

The Inhibition of Cholinesterases by Antagonists of Acetylcholine and Histamine. A. Todrick 76

The Action of Eserine Sulphate on the Spinal Cord of the Cat. D. Taverner 84

Pharmacology of the Porphyrins and Porphobilinogen. A. Goldberg, W. D. M. Paton, and J. W. Thompson 91

Factors Influencing the Effect of Morphine Sulphate on the Ascorbic Acid Content of Rats' Adrenal Glands. P. A. Nasmyth 95

The Intracellular Distribution of Histamine in Dog's Liver. P. Hagen 100

The Mechanisms of Toxicity of Some Iron Preparations. J. A. Nissim 103

Analgesic and Other Actions of Some Dithienylbutenylamine Compounds in Man. P. Flintan and C. A. Keele 106

Influence of Cysteinamine on Tuberculin Sensitivity in Guinea-pigs. D. A. Long 118

The Glycogenolytic Action of Sodium Salicylate. D. H. Sproull 121

Biological Standardization of " MSb Polymer " (Sodium *p*-Melaminyl Phenyl Stibonate). N. D. Edge, J. Hill, and Rachel Stone 125

No. 2. *JUNE*, 1954

A Medium for Perfusion of Innervated Blood Vessels. D. J. A. Gallagher 129

The Inhibition of the Peristaltic Reflex by Sympathomimetic Amines. Mary D. McDougal and G. B. West 131

Some Selective Inhibitors of True Cholinesterase. Muriel P. Fulton and G. A. Mogey 138

The Part Played by Inhibition of Cholinesterases of the CNS in Producing Paralysis in Chickens. L. Austin and D. R. Davies 145

Acetylcholine Production in Animals Poisoned by Diethyl-*p*-nitrophenyl Phosphate (Paraoxon). J. M. Barnes and Janet I. Duff 153

CONTENTS

PAGE

The Inhibition of Cholinesterases by 3-(Diethoxyphosphinyloxy)-*N*-methylquinolinium Methylsulphate and Its Tertiary Base. F. HOBBIGER 159

Further Studies on Compounds Reducing Synovial Membrane Permeability. CAMILLO BIANCHI.... 166

Depression of Autonomic Ganglia by Barbiturates. K. A. EXLEY 170

The Effect of a Specific Antiserum on the Activities of Lactic Dehydrogenase of Mammalian Muscle and of *Schistosoma mansoni*. TAG E. MANSOUR, ERNEST BUEDING, and ABRAM B. STAVITSKY.. 182

The Quantitative Assay of Angiotonin. J. DEKANSKI 187

1: 6-di-4′-Chlorophenyldiguanidohexane ("Hibitane"). Laboratory Investigation of a New Antibacterial Agent of High Potency. G. E. DAVIES, J. FRANCIS, A. R. MARTIN, F. L. ROSE, and G. SWAIN 192

Comparison of Histamine Release by Compound 48/80 and Octylamine in Perfused Tissues. W. FELDBERG and J. L. MONGAR 197

The Hypersensitivity of the Denervated Nictitating Membrane to Various Substances. J. H. BURN and U. TRENDELENBURG 202

Observations on the Character of Mercurial Diuresis. R. A. DALE and P. H. SANDERSON 210

A Comparison of the Peripheral Parasympatholytic and Autonomic Ganglion Blocking Activities of Methantheline ("Banthine") and Propantheline ("Pro-banthine") with Atropine and Hexamethonium. E. A. JOHNSON and D. R. WOOD 218

The Blood Anticoagulant Effect of Short Chain-length Dextran Sulphates. C. R. RICKETTS 224

Methods for Studying the Reflex Activity of the Frog's Spinal Cord. A. BUNZL, A. S. V. BURGEN, B. DELISLE BURNS, NORAH PEDLEY, and KATHLEEN G. TERROUX 229

The Use of the Rat's Isolated Seminal Vesicle for the Assay of Sympatholytic Drugs. JAMES L. LEITCH, C. S. LIEBIG, and THOMAS J. HALEY 236

Drugs which Antagonize 5-Hydroxytryptamine. J. H. GADDUM and KHAN A. HAMEED 240

The Concentration of Adrenaline in the Peripheral Blood During Insulin Hypoglycaemia. MARGARETHE HOLZBAUER and MARTHE VOGT 249

No. 3. *SEPTEMBER*, 1954

Acid Gastric Secretion in the Rat and Its Inhibition by Phloxin. J. VAN NOORDWIJK and P. N. AARSEN 253

Chloramphenicol Excretion in the Bile. E. DANOPOULOS, B. ANGELOPOULOS, CHR. ZIORDROU, and P. AMIRA 260

A Peripheral Action of Sodium Salicylate. D. H. SPROULL 262

The Antibacterial Activity of Phenanthridine Compounds. ALAN SEAMAN and MALCOLM WOODBINE 265

The Effect of PAS on the Distribution of Sulphetrone after Simultaneous Administration of the Drugs. EILEEN I. SHORT 271

Experimental Observations on Haffner's Method for Testing Analgesic Drugs. CAMILLO BIANCHI and JOLANDA FRANCESCHINI 280

The Modification of the Action of Ouabain in Cardiac Tissue by Eserine and Acetylcholine. M. L. CHATTERJEE 285

Antagonism of Analgesia by *p-cyclo*Hexyloxy-α-phenylethylallylamine and Some Observations on Hyperalgesia. A. MCCOUBREY 289

Depletion of Adrenal Ascorbic Acid and Cholesterol by *p-cyclo*Hexyloxy-α-phenylethylamine and Related Amines in Rats. A. MCCOUBREY 295

Protection Against the Toxicity of Cholinesterase Inhibitors by Acetylcholine Antagonists. M. W. PARKES and P. SACRA 299

Cytotoxic Agents: IV, The Carcinogenic Actions of Some Monofunctional Ethyleneimine Derivatives. A. L. WALPOLE, D. C. ROBERTS, F. L. ROSE, J. A. HENDRY, and R. F. HOMER 306

The Action of Cardiac Glycosides on Autonomic Ganglia. W. L. M. PERRY and H. REINERT 324

Dose-response Curves for the Effect of Histamine on Acid Gastric Secretion in Man. H. M. ADAM, W. I. CARD, M. J. RIDDELL, M. ROBERTS, J. A. STRONG, and B. WOOLF 329

CONTENTS

PAGE

Depression of the Cough Reflex by Pentobarbitone and Some Opium Derivatives. A. J. May and J. G. Widdicombe 335

The Effect of Antifibrillatory Drugs on the Cat's Heart *in vivo*. E. A. Johnson 341

Quantitative Measurements on Spreading Phenomena in Skin. Gwenda R. Barer 346

Chemical and Pharmacological Properties of the Potent, Slow Contracting Substance (Kinin) in Wasp Venom. M. Schachter and E. M. Thain 352

Assay of Histamine on the Isolated Guinea-pig Intestine by the Method of Superfusion. H. M. Adam, D. C. Hardwick, and K. E. V. Spencer 360

Atropine-like Activity of Some Anticholinesterases on the Rabbit Atria. R. E. Tedeschi 367

Some Observations on the Method of Superfusion. G. W. Cambridge and J. A. Holgate 370

Studies on the Structure-Action Relationships of Parasympathomimetic Furan Compounds. A. K. Armitage and H. R. Ing 376

The Effect of Two Ethylenediamines on Neuromuscular Transmission and on Striated Muscle. J. D. P. Graham and R. S. Tonks 379

The Urinary Excretion of Succinyldicholine and Succinylmonocholine in Man. Francis F. Foldes and Stata Norton 385

No. 4. *DECEMBER*, 1954

Inhibition of Hypothalamic, Medullary and Reflex Vasomotor Responses by Chlorpromazine. S. R. Dasgupta and G. Werner 389

Comparison of Some Pharmacological Properties of Chlorpromazine, Promethazine and Pethidine. J. Kopera and A. K. Armitage 392

The Action of Chlorpromazine on Diencephalic Sympathetic Activity and on the Release of Adrenocorticotrophic Hormone. Margarethe Holzbauer and Marthe Vogt 402

Release of Histamine from Skeletal Muscle by Snake Venoms. N. K. Dutta and K. G. A. Narayanan 408

The Effects of Antihistamine Substances on the Response to Histamine of the Blood Vessels of the Human Forearm. F. Duff and R. F. Whelan 413

Further Observations on the Effect of Aminopterin, A-Methopterin and *Citrovorum* Factor on the Growth of Transplantable Avian Lymphoid Tumours. L. G. Chubb and A. L. Laursen 419

Effect of Denervation on Enzymes in Iris and Blood Vessels. J. H. Burn, Flora J. Philpot, and U. Trendelenburg 423

Hydrolysis of Succinylcholine Salts. P. J. Fraser 429

The Absorption, Toxicity and Experimental Antituberculous Action of 5-Amino-7-methyl-1:2:4:6-tetra-azaindene. J. Francis, A. R. Martin, F. L. Rose, and A. Spinks 437

The Effects of Anticholinesterases on Humoral Transmission in the Submaxillary Gland. P. Dirnhuber and C. Lovatt Evans 441

The Actions of Antimonials on Glycolytic Enzymes of *Schistosoma mansoni*. Tag E. Mansour and Ernest Bueding 459

The Effects of Lead, Mercury, and Gold on the Potassium Turnover of Rabbit Blood Cells. C. R. B. Joyce, Henrietta Moore, and M. Weatherall 463

Choline 2:6-Xylyl Ether Bromide; An Active Quaternary Local Anaesthetic. P. Hey and G. L. Willey 471

Potentiation of the Pressor Action of Noradrenaline by Hexamethonium, Tetraethylammonium, and Methantheline. C. Bartorelli, A. Carpi, and L. Cavalca 476

The Action of Histamine and Pilocarpine on the Superior Cervical Ganglion and the Adrenal Glands of the Cat. U. Trendelenburg 481

The Importance of Ionization in the Activity of Sympathomimetic Amines. G. P. Lewis 488

Quantitative Determination of Mast Cell Fragmentation by Compound 48/80. Stata Norton 494

Identification of an Isoprenaline-like Substance in Extracts of Adrenal Glands. Mary F. Lockett .. 498

Index to Volume 9 506

E
5
1
6
2
0
7
0
76
79
85
89
92
02
08
13
19
23
29
37
41
59
63
71
476
481
488
494
498
506